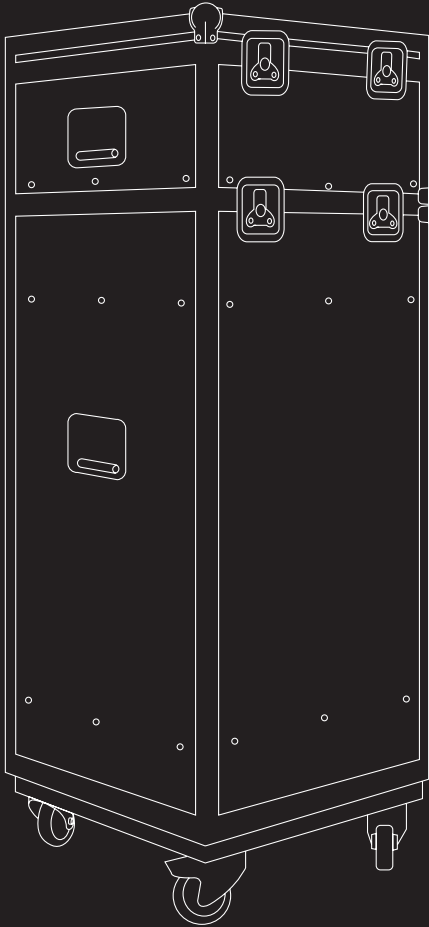


# MOBILE STAGE TECHNICAL MANUAL



FREI RAUM

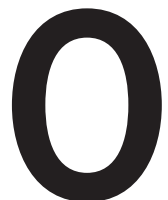
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MOBILE STAGE

# MOBILE STAGE TECHNICAL MANUAL

- 1** About
- 2** Mobile Stage Elements
- 3** Flight Cases
- 4** Setup Instructions
- 5** Beam Information
- 6** Stool Information
- 7a** Deinstallation and packing
- 7b** Online Information



# CONCEPTUAL APPROACH

This is not a stage.

This is a tool to activate (public) spaces and communities through artistic and performative interventions.

This is a set of building units that can be installed to respond to different needs and circumstances.

This is a platform for dialogue and exchange.

This is a tool to design the void.

This is a tool to design the audience.

This is a light installation.

This is a set of 24 light beams, 50 stools and 8 boxes.

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# ABOUT FREIRAUM'S MOBILE STAGE

Freiraum's Mobile Stage is a tool available to all the Freiraum partners and similarly minded initiatives, who share the vision to activate public spaces and communities, providing a common ground for participatory performative and collective actions.

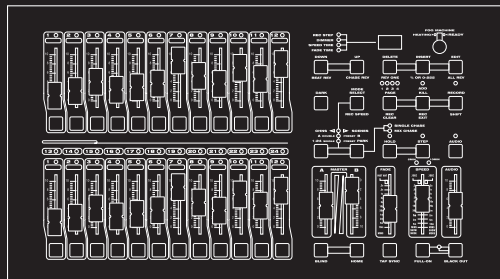
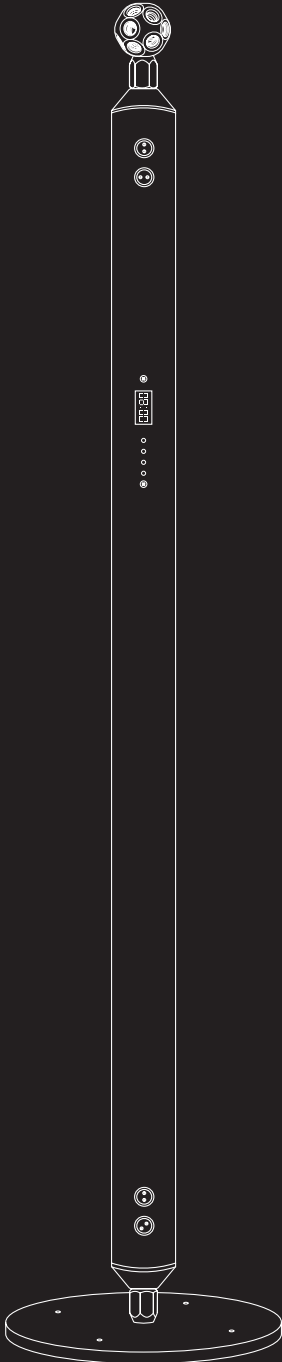
As a tool, Freiraum's Mobile Stage creates a safe space for people from various backgrounds and disciplines -experts and non-experts, communities, artists, performers and institutions- to explore, learn and create together, through different art forms and engagement formats. Thanks to its modular design and creative usage of light, the Mobile Stage gives the freedom to imagine a large variety of setups, shapes and forms, adaptable to different spaces and conditions. Most importantly, the Mobile Stage empowers users to understand and design public space as a void that allows for dynamic relationships to emerge.

*The Mobile Stage was initially conceived and designed through a series of participatory workshops in the context of Project LABattoir by ArtBOX.gr (2017-2019; [www.labattoir.org](http://www.labattoir.org)) with the support of Goethe-Institut Thessaloniki. The final concept design was developed by artist-designer Bilal Yılmaz as a result of these workshops, with the contribution of the participants.*

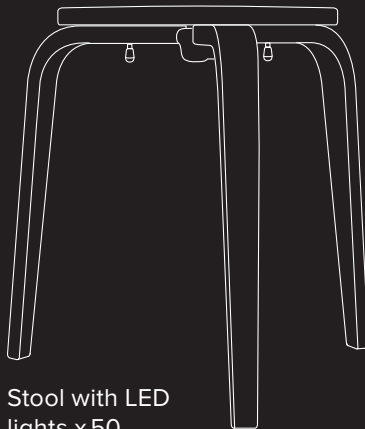


# MOBILE STAGE ELEMENTS

The numbers correspond to the full version of the Mobile Stage. Since you might have a smaller version of it, please check numbers according to the packing list.



DMX Controller WORK STAGE 2412 x 2



Stool with LED lights x 50

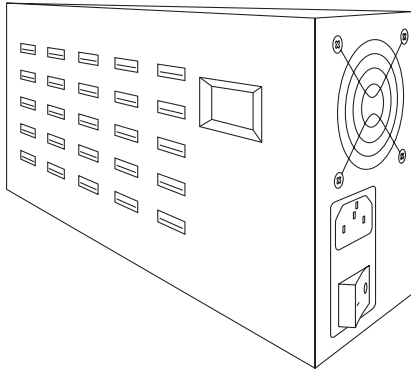
18-holes Spherical Connector, Beam, Iron Base x 25

# 2

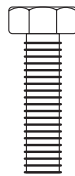
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# MOBILE STAGE ELEMENTS

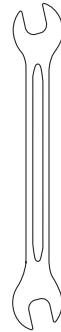
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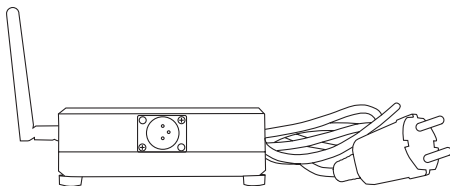
Chargers for the stools lights x 2



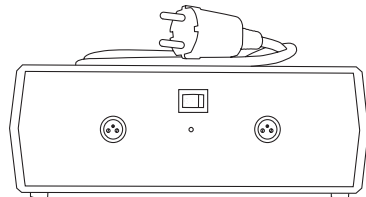
Connectors (M12) x 25



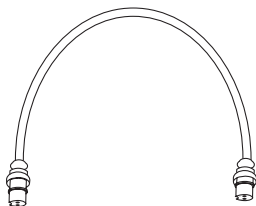
Open-End  
Wrench (22) x 2



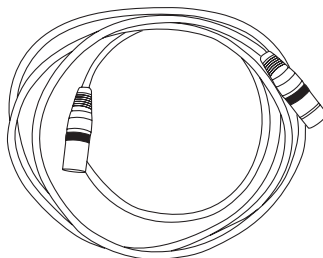
Transmitters - DMX512 x 2



Power Boxes - 220 Volt AC /  
12 Volt DC 20A 250W x 5



Power Cables  
(25X0.5m, 25X2m, 5X5m)

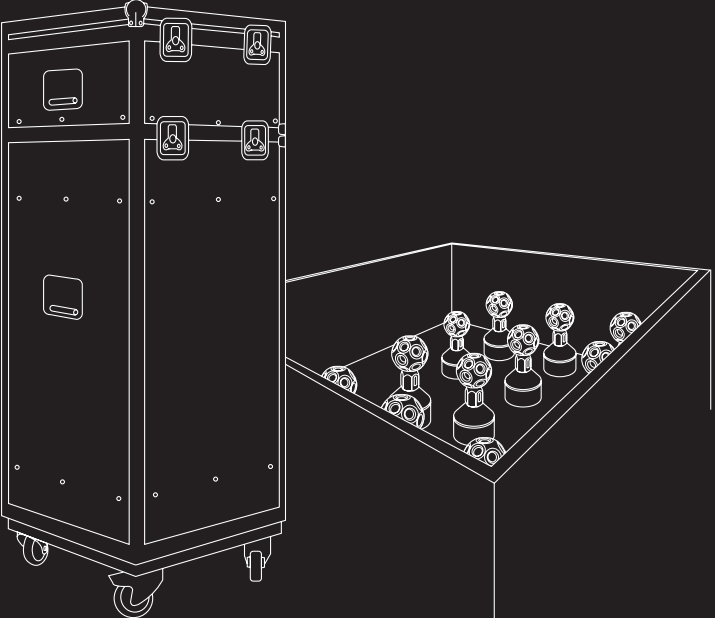
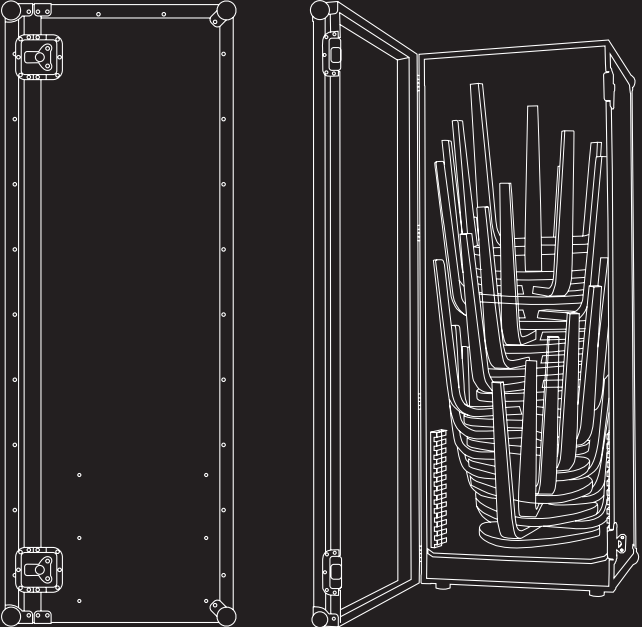


XLR Cables x 2

# 2

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# FLIGHT CASES



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# FLIGHT CASES

## **2 FLIGHT CASES 58,5 x 58,5 x 150,8 cm**

1 x 78,5 kg: 12 beams

1 x 81 kg: 13 beams

## **4 FLIGHT CASES 50 x 50 x 140 cm**

2 x 56 kg: 13 stools each

2 x 53 kg: 12 stools each

## **2 FLIGHT CASES 98 x 40 x 48 cm wheels x 90 kg**

2 x DMX controllers WORK STAGE 2412

2 x Chargers for the stool lights

26 x connectors (M12)

2 x transmitters – DMX 512

5 x Power Boxes

2 x Wrenches (22)

2 x XLR cables

25 x Power cables 0,5 m

25 x Power Cables 2 m

5 x Power cables 5 m

25 x Iron Bases





# SETUP INSTRUCTIONS

## GENERAL

The Beams can be controlled individually or in groups through the provided 24-Channel DMX Controller.

Each Beam can be assigned a number (visible on the display and changeable from the push buttons at the back of the Beam) that corresponds to one channel on the DMX Controller.

The Beams can be connected in groups of maximum 8. Each group of maximum 8 Beams can then be connected to one Power Box.

Power Boxes input cables (220V) should be secured: fixed on the ground and covered for public locations or fixed to the floor for indoors locations.

Beams should be connected to each other with 2 pin power cables (12V-DC).

Power Cables connecting the Beams carry 12V-DC so there is no risk of electric shock.

Each Spherical Connector has 18 holes with a variety of angles: 45 - 60 - 90 - 120 - 135 - 180 - 240 - 270 degrees. Connection possibilities between beams are defined by those angles.

Power Cable Connectors have a notch, so it's not possible to connect them in the wrong way.



# SETUP INSTRUCTIONS

## PLAN YOUR INSTALLATION

### PREPARATION

Plan your setup, considering the whole space, the scenography and the technical details:

- 1 setup and positioning of Beams
- 2 positioning of Stools (audience)
- 3 positioning of Power Boxes
- 4 positioning of DMX Controller - Control Station
- 5 positioning of any additional equipment (e.g. speakers)
- 6 cable connections between the Beams, the Power Boxes, the DMX Controller etc.
- 7 securing the 220V cables on the floor and covering them to avoid people tripping over them.

Keep in mind that setup possibilities are defined by the number and length of the Power Cables.

Design the choreography of lights during your event / performance:

- 1 Plan the numbering of each Beam. Each number corresponds to one channel on the provided DMX Controller. Through this, you'll be able to control the Beams during the event.
- 2 Learn how to use the provided DMX Controller to control and programme the Beams.
- 3 You can also control the Beams through a computer & software - in case you are working with an expert light designer/engineer.

Charge the lights under the stools.

The life of a fully charged battery is 12 hours.

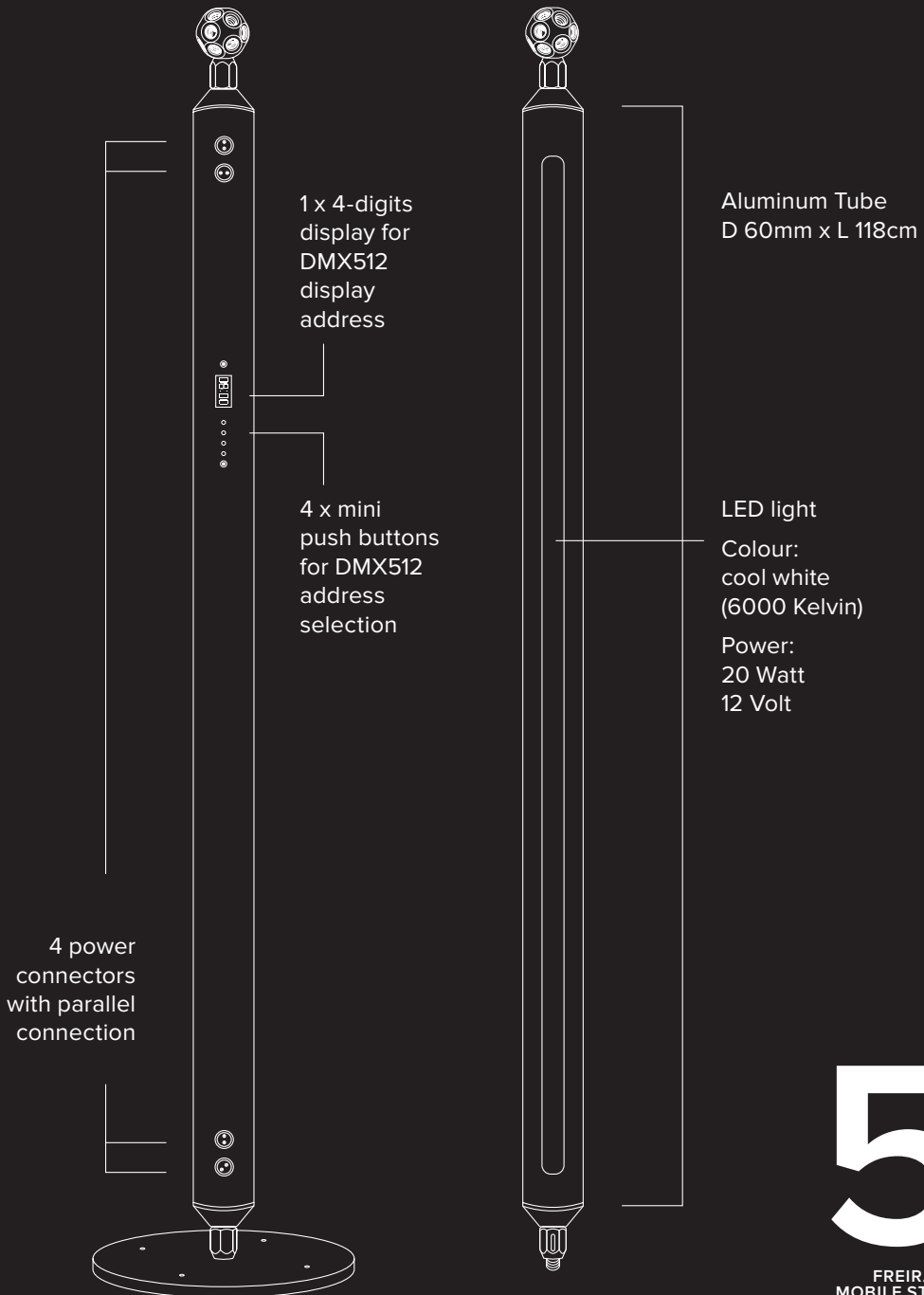
### ON LOCATION

- 1 Place the Beams and other equipment loosely in the space through your setup plan. Make final adjustments if necessary.
- 2 Make the connections between the Beams and the Power Cables.
- 3 Tighten the nut connections between the beams with the provided Open-End Wrench (22).
- 4 Connect the Beams to the Power Boxes: up to 8 Beams max. to each Power Box.
- 5 Connect the DMX Controller to 1 DMX Wireless Transmitter via the XLR cable.
- 6 Set the stools through your setup plan and turn their lights on.



# BEAM INFORMATION

Each beam consists of:



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# BEAM INFORMATION

## EACH BEAM CONSISTS OF

- a. Aluminum tube - D 60 mm x L 118 cm
- b. LED light. Colour: cool white (6000 Kelvin). Power: 20 Watt, 12 Volt.
- c. 4 power connectors with parallel connection
- d. 1 x 4-digits display for DMX512 display address
- e. 4 x mini push buttons for DMX512 address selection
- f. 1 wireless DMX receiver (inside the aluminum tube)
- g. 1 led power controller (inside the aluminum tube)

Each beam uses only 1 channel on DMX512 chart.

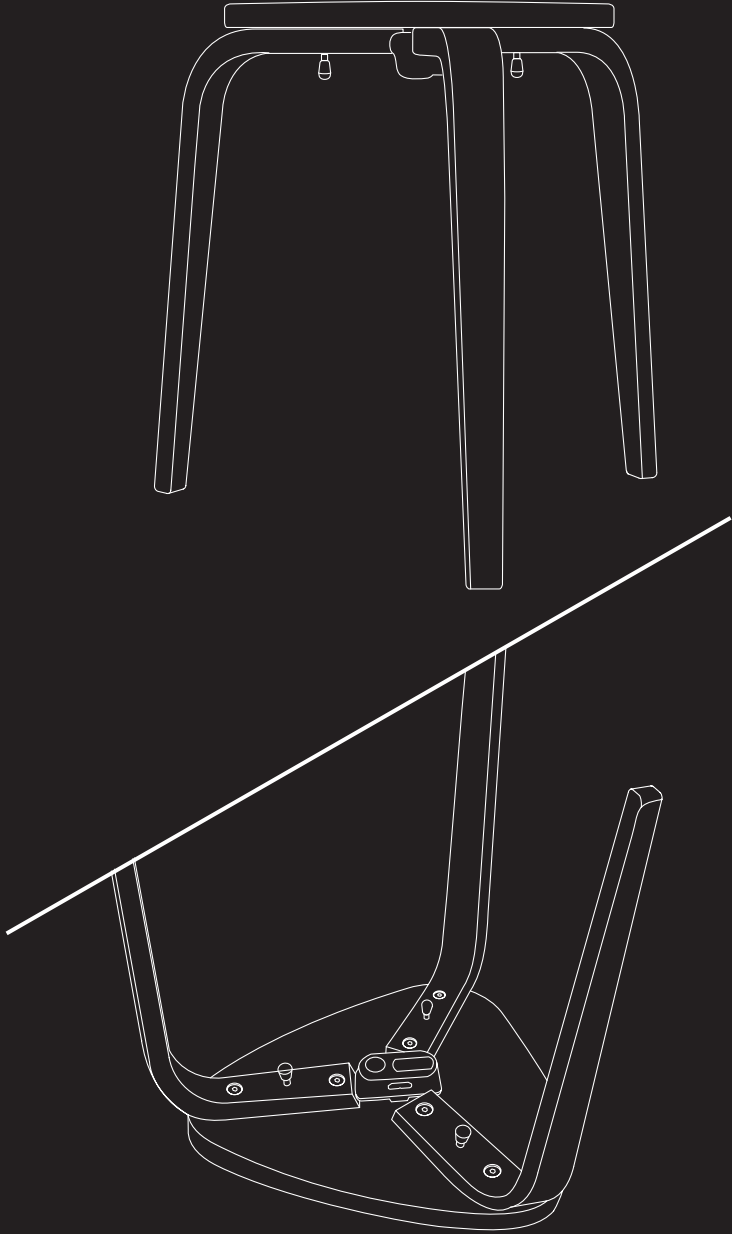
Each Beam can be controlled by anyone DMX console or computer software with USB to DMX adapter.

## BEAM INSTALLATION AND OPERATION

- 1 Connect the Beam (or group of up to 8 Beams) and Power Box with a Power Cable.
- 2 Turn ON the Power Button on the Power Box.
- 3 Press the mini buttons at the back of the Beam using a pencil or nail.
- 4 If the display on the beam is OFF, press the DISPLAY ON-OFF button.
- 5 The display shows the Beam's DMX512 address.
- 6 Set the Beam's DMX512 address from 1 to 512 using the UP and DOWN buttons.
- 7 After selecting the Beam's address, save by pressing the MEMORY button. If you don't press the MEMORY button, the Beam will go back to its previously saved address, when the power is turned off.
- 8 In the same way, programme the rest of the Beams according to the setup plan.
- 9 After programming the Beams, you can press the DISPLAY ON-OFF button, in case you are encountering any problems with the red display light.
- 10 The Beams receive the DMX512 signal wirelessly. If the Beam is receiving the correct DMX512 signal, the double dot on the display is ON.
- 11 Push the DISPLAY ON-OFF button once to check the correct DMX512 signal.



# STOOL INFORMATION



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# STOOL INFORMATION

The light under the stools runs with rechargeable batteries.

Each battery lasts for around 12 hours, when fully charged.

The lights are attached under the stools with VELCRO tape.

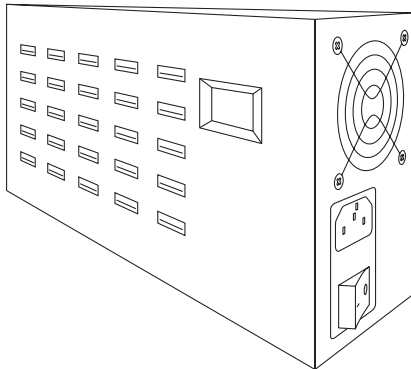
The lights have COB and XPE LEDs with on-off button and three operation modes (high, low, strobe).

Take the flashlight off the stool when you want to charge it.

Connect the flashlight to the charger using a USB to micro USB cable (not provided).

During charging, the led indicator on the flashlight will turn RED.

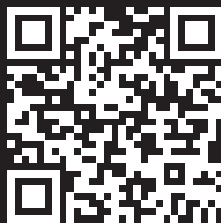
When fully charged, the led indicator will turn to GREEN.



# 6

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# ONLINE INFORMATION



[www.goethe.de/freiraum](http://www.goethe.de/freiraum)  
[www.freiraumfestival.eu](http://www.freiraumfestival.eu)

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# DEINSTALLATION & PACKING

- 1 Gather the Stools, turn their lights off, take the flashlights off and put the Stools back inside their Flight Cases.
- 2 Put the flashlights inside the charging box, then into the corresponding Flight Case.
- 3 Turn off the power buttons of the Power Boxes and the DMX Controller, disconnect them and put them back in their Flight Cases.
- 4 Disconnect the Power Cables and pack them orderly in the corresponding Flight Case.
- 5 Disconnect the sockets of DMX Cables and put them inside the DMX cable boxes, grouped by size and kind, then in the corresponding Flight Case.
- 6 Disconnect the Beams using the open-end wrench (22), keeping 1 Spherical Connector on each Beam and pack them inside their Flight Cases.